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(71) Applicant: NISSAN MOTOR CO LTD

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(72) Inventor: TAKAHASHI NOBUTAKA

(54) CONTROL DEVICE FOR DIRECT INJECTION TYPE INTERNAL COMBUSTION ENGINE

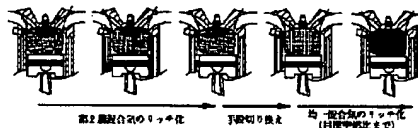
(57) Abstract:

PURPOSE: To smoothly increase a torque by resetting an air-fuel ratio gradually to a usual value at the time of restarting fuel injection from a fuel injection stoppage state, without deteriorating ignitability nor combustibility.

CONSTITUTION: At the time of restarting fuel injection, layered air-fuel mixture composed of first air-fuel mixture layer formed around an ignition plug and second air-fuel mixture layer having less air-fuel ratio than the first air-fuel mixture layer is formed. A mean air-fuel

ratio is gradually increased by increasing the air-fuel ratio of the second layer. When the mean air-fuel ratio reaches a value for obtaining stable ignitability and combustibility, switching is performed inside a combustion chamber so as to form air-fuel mixture of uniform air-fuel ratio. The uniform air-fuel ratio is gradually increased to a normal target air-fuel ratio.

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